

LAYERED MODULATION FOR DIGITAL SIGNALS

ABSTRACT OF THE DISCLOSURE

Signals, systems and methods for transmitting and receiving layered modulation
5 for digital signals are presented. A layered signal for transmitting data, comprises a first
signal layer including a first carrier and first signal symbols for a first digital signal
transmission and a second signal layer including a second carrier and second signal
symbols for a second signal transmission disposed on the first signal layer, wherein the
layered signal has the first carrier demodulated and first layer decoded to produce the first
10 signal symbols for a first layer transport, the first signal symbols are remodulated and
subtracted from the layered signal to produce the second signal layer, and the second
signal layer has the second carrier demodulated and decoded to produce the second signal
symbols for a second layer transport.